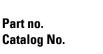
## DATASHEET - BPM-F-830/17/3-P-IVS



Floor-standing distribution board, IVS, IP55, HxWxD=1760x830x320mm



BPM-F-830/17/3-P-IVS 111391



## **Delivery program**

Product range		Service distribution board IVS
Basic function		Floor-standing enclosures
Single unit/Complete unit		Complete housing
Degree of Protection		IP55 (with door and flange)
Description		Profi Plus basic enclosures Monoblock enclosure with door and rotary lever Including open cable entries top and bottom, prepared for F3A flange Exchangeable door hinges Covered hinges Door opening angle 100°
Material		Sheet steel
Surface finish		Polyester powder coating Phosphated RAL 7035, light grey
Colour		light gray (RAL 7035)
Information about equipment supplied		Including mounting system for the IVS mounting units including insulating surround and mounted insulated support bracket
Width	mm	830
Height	mm	1760
Depth	mm	320

## Technical data

General		
Standards		EN 60439-1/3 IEC 62208
Protection class		1
Degree of Protection		IP55 (with door and flange)
Power loss		
Max. admissible heat dissipation, ambient air temperature +35 $^{\circ}\mathrm{C}$	W	367
Weight	kg	77.1
Material characteristics		
Material		Sheet steel
Surface treatment		Painting, phosphated and polyester powder coating
Surface finish		Polyester powder coating Phosphated RAL 7035, light grey
Colour		light gray (RAL 7035)
Material characteristics		
Type Door		Doors with covered hinges Can be removed from 90°
door opening angle		100° (single mounting)
Door interlock		Hinge handle with roller lever lock Cylinder lock Double-ward lock
Material properties		
Mechanical		
Impact resistance		IK07
Cable entry		Open cable entry, prepared for F3A flanges
Electrical		

Rated operational voltage	U <sub>e</sub>	V	690
Rated frequency	f	Hz	50
Rated operational current	le	А	630
Max. admissible heat dissipation, ambient air temperature +35 $^{\circ}\mathrm{C}$		W	367
Earthings			M6 weld stud (base frame) M5 self-tapping screw (enclosure side plate, top/bottom panel) M6 weld stud (door)

## Design verification as per IEC/EN 61439

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Technical data for design verification			
Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890			
Individual enclosure, free-standing	P <sub>V</sub>	C0	203
Starting enclosure, free-standing	P <sub>V</sub>	CO	198
Middle enclosure, free-standing	P <sub>V</sub>	C0	194
Individual enclosure for wall mounting	P <sub>V</sub>	CO	193
Starting enclosure for wall mounting	P <sub>V</sub>	CO	175
Middle enclosure for wall mounting	P <sub>V</sub>	CO	162
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890			
Individual enclosure, free-standing	P <sub>V</sub>	C0	408
Starting enclosure, free-standing	P <sub>V</sub>	C0	398
Middle enclosure, free-standing	Pv	CO	389
Individual enclosure for wall mounting	P <sub>V</sub>	CO	388
Starting enclosure for wall mounting	P <sub>V</sub>	CO	352
Middle enclosure for wall mounting	P <sub>V</sub>	CO	324
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Not relevant to indoor installations.
10.2.5 Lifting			Met; assembled and secured as per the latest applicable instruction leaflet.
10.2.6 Mechanical impact			IK10
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			IP55
10.4 Clearances and creepage distances			Is the panel builder's responsibility.
10.5 Protection against electric shock			$<$ 0.1 $\Omega$ ; meets the product standard's requirements.
10.6 Incorporation of switching devices and components			Is the panel builder's responsibility.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			U <sub>i</sub> = 440 V AC
10.9.3 Impulse withstand voltage			4 kV
10.9.4 Testing of enclosures made of insulating material			Does not apply to metal enclosures.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility.
10.13 Mechanical function			Meets the product standard's requirements.